

5200 Beethoven Street, Los Angeles, CA 90066 TEL: (310)306-5556 • FAX: (310)821-7413

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### **MODEL 5293**

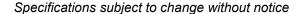
0.7-6.0 GHz 50 WATTS LINEAR POWER RF AMPLIFIER

# Solid State Broadband High Power RF Amplifier

The 5293 is a 50 Watt broadband amplifier that covers the 700-6000 MHz frequency range. This amplifier utilizes Class A linear power devices that provide an excellent 3<sup>rd</sup> order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability, Like all OPHIR<sub>RF</sub> amplifiers, the 5293 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	Specification @ 25° C		
<u>Electrical</u>				
1	Frequency Range	0.7-6.0 GHz		
2	Saturated Output Power	50 Watts Nominal		
3	Power at P1dB	30 Watts Minimum		
4	Small Signal Gain	+48dB Minimum		
5	Gain Flatness	± 5.0dB Maximum		
6	IP <sub>3</sub>	+52dBm typical		
7	Input VSWR	2:1 max		
8	Harmonics	-20 dBc min @ 30 Watts		
9	Spurious Signals	< -60 dBc typical @ 30 Watts		
10	Input/Output Impedance	50 Ohms nominal		
11	AC Input Power	1000 Watts Maximum		
12	AC Input	100 – 240 VAC, single phase		
13	RF Input	0 dBm max		
14	RF Input Signal Format	CW/AM/FM/PM/Pulse		
15	Class of Operation	Class A		
Mechanical				
16	Dimensions	19" x 5.25" x 21"		
17	Weight	55 Lbs.		
18	RF Connectors	Type-N		
19	Grounding	Chassis		
20	Cooling	Internal Forced Air		
<u>Environmental</u>				
21	Operating Temperature	0° C to +50° C		
22	Operating Humidity	95% Non-condensing		
23	Operating Altitude	Up to 10,000' Above Sea Level		
24	Shock and Vibration	Normal Truck Transport		





#### **FE MODEL SHOWN**

#### ORDERING MODELS

- RE Rear RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232
- FE Front RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232
- R Rear RF Connector model
- F Front RF Connector model

05/17	Approved By:	Date:	



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## FRONT PANEL CONTROLLER FEATURES (Optional)

- Forward Power Monitoring (dBm or Watts)
- Reflected Power Monitoring (dBm or Watts)
- Gain Control (20 dB dynamic range of adjustment)
- Fault Status
- Full Protection Of any VSWR Condition, Open or Short, into any Phase angle
- Remote Control Access via the Ethernet, RS-232, or IEEE-488 communications ports
- Integrated Automatic Leveling Control to allow end-user to maintain a steady output level with variances in temperature, or input RF level
- ♦ Standby/Enable Control
- Front Panel Display for easy viewing of System Status Locally
- Keypad buttons for full local control

#### CIRCUIT PROTECTIONS

- Thermal Overload
- ♦ Over Current
- ♦ Over Voltage
- Open or Short VSWR Conditions (With Front Panel Controller)

### CIRCUIT CONTROL (WITH FRONT PANEL CONTROLLER)

- ♦ Standby (amplifier disable)
- Gain/power setting with 20 dB range
- ♦ VSWR protection Reset
- ♦ ALC On/ Off

## CIRCUIT INDICATIONS (WITH FRONT PANEL CONTROLLER)

- ♦ Forward Power
- Reflected power
- ♦ VSWR Fault
- Gain Setting (VVA) percentage

#### **RFPA SYSTEM OPTIONS**

- Switched Filter Bank
- Input Power Requirements
- ♦ Ruggedized Version
- ♦ Cabinet Requirements
- Outdoor Version
- ♦ Sample Ports
- ♦ Racking Options
- Many More!
- ◊ Consult Factory with Specific Requirements



